Request Programming in 2012 SHOPP

PROJECT LOCATION: In Alameda County on Routes 580, 680, and 880 at Various Locations

APPROVAL R	ECOMMENDED:	Joanne	gorham	9-15-1
	(r) ²⁻⁰⁰	JEANNE GORHAM, DIS		
APPROVAL R	ECOMMENDED:	Kulucy		*
		LAWRENCE A. JON	ES PROJECT MANAGE	R
APPROVED:	1 Sija	Jan G	9-15-11	
	BIJAN SARTIPI,	DISTRICT DIRECTOR	DATE	

This Project Initiation Document has been prepared under the direction of the following licensed landscape architect. The licensed landscape architect attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based.

LICENSED LANDSCAPE ARCHITECT

DATE

ANDSCAPE

1. Initiating Office/Initiator:

The District 4 Program Manager for the Roadside Safety Improvement Program has established that a roadside safety project is needed along Route 580 between PM R32.9 and 46.5, Route 680 between PM 3.2 and 3.8, and Route 880 between PM 3.2 and 27.1 that meets the qualification for the 201.235 Program.

This Small Capital Value Project (SCVP) project initiation document (PID) provides conceptual approval of the proposal and a recommendation to program the project into the 2012 State Highway Operation and Protection Program (SHOPP.) A project report will serve as final approval of the proposal.

2. Purpose and Need:

Purpose:

The purpose of the 20.XX.201.235 - ROADSIDE SAFETY IMPROVEMENTS Program is to minimize the frequency and duration of highway worker exposure to traffic by providing safe access to work areas and by providing features to reduce repetitive maintenance activities. The program originated as the result of annual Caltrans statewide stand-down meetings to improve safety for Caltrans employees as well as the travelling public. The program provides off pavement access areas that can be used by highway workers for landscape/electrical maintenance; litter pickup crews; the motoring public for emergencies; and the California Highway Patrol for traffic control. Safety improvement measures under this program also include relocating existing roadside facilities to safe work locations away from the travelled way; paving extended gore areas, narrow areas, and some slopes adjacent to bridge structures; providing vegetation control treatments under existing guardrail, in low visibility areas and along the road edge;

Need:

Installation of roadside safety improvements such as gore area paving, maintenance vehicle pullouts (MVPs,) and access gates, will decrease worker exposure. Currently, the maintenance of the unpaved gore areas must be performed manually, requiring daytime lane closures exposing maintenance workers to high speed traffic on the heavily congested routes in the San Francisco Bay Area. In areas lacking adequately located MVPs or access gates, often maintenance vehicles are forced to use the shoulders or other less desirable areas to park in order to be in the vicinity of the work.

The Department's Maintenance work force has declined in size over time, resulting in

responsibility for more lane miles and acreage of right of way per person for fewer staff crews. At the same time, Department policies to reduce herbicide applications Statewide mean that other measures are needed to control weeds or other out-of-place vegetation on the roadside or road edge.

3. Deficiency Summary:

There is existing risks associated with worker exposure to traffic as determined by frequency and duration of exposure, variety of maintenance crews in area. These risks can be decreased with installation of roadside safety improvements.

4. Project Proposal:

District Maintenance has identified the following locations in need of roadside safety improvements within Alameda County. On Route 580, there are two areas in need of maintenance vehicle pullouts. On Route 680, there is a narrow unpaved strip along a sound wall that should be paved. On Route 880, there are 17 gore locations identified as needing to be paved within the project post-miles. This project proposes to install maintenance vehicle pullouts to increase worker safety. This project also proposes to pave gore and other narrow dirt areas to prevent weed growth and enable mechanical sweeping, thus decreasing worker exposure while increasing public safety. Since the hydrology will be affected by the paving, the need for drainage modifications will have to be addressed.

In the course of investigation during the PA&ED phase, there may other locations identified as needing gore paving, maintenance vehicle pullouts (MVPs) or access gates.

<u>R/W:</u> All construction work including traffic control operations is anticipated to be performed within the State Right of Way. A Right of Way data sheet will be included in PA&ED phase.

<u>Hazardous Waste:</u> Hazardous material investigation and recommendations will be performed during the PA&ED and PS&E phases.

Stormwater: This project has anticipated soil disturbance, temporary water quality impacts resulting from the construction activities in this project will be addressed at PA&ED phase. A Storm Water Data Report (SWDR) will be included in PA&ED phase.

Hydraulics: The existing water flow lines will be affected by the gore paving. District

Hydraulics will need to investigate and provide recommendations for drainage modifications during the PA&ED and PS&E phases.

<u>Environmental</u>: This project is expected to have no economic, social or environmental impacts, and a Categorical Exemption is the anticipated environmental clearance document. Environmental analysis will performed during the PA&ED phase.

5. Programming

PROJECT CAPITAL COST						
Fiscal Year	Right of Way Capital	Construction Capital				
FY 11-12		\$1,946400				
FY12-13		\$2,027,500				
FY13-14	\$5,000	\$2,112,000				
FY14-15		\$2,200,000				

Key assumptions for the cost estimate:

- 4% annual escalation
- Excavated soil is ADL contaminated

		PROJECT SUPPORT COMPONENTS							
	PA&ED 0 Phase		Design 1 Phase		Right of Way 2 Phase		Construction 3 Phase		Total
	Dist	DES	Dist	DES	Dist	DES	Dist	DES	
Estimated PY's	.0.8		1.2		0.2	***************************************	1.7		3.9
Project Support in dollars (\$K)	150		220		30		300		700

Key assumptions for support cost estimate.

- Support Cost is 32% of Capital Cost
- \$105/hr
- \$180,000 per PY

6. Schedule:

HQ Milestones	Delivery Date				
	(Month, Day, Year)				
PA & ED	09/31/2013				
Regular Right of Way	10/31/2014				
Project PS&E	10/31/2014				
Right of Way Certification	12/31/2014				
Ready to List	12/31/2014				
Approve Contract	5/31/2015				
Contract Acceptance	3/31/2016				
End Project	8/31/2016				

Key assumptions for the schedule. 9 months for PS&E 160 Working days Vote by 2/28/2015, Adv. By 3/30/2015 No environmental schedule constraints

7. Attachments:

- A. Project Location Map
- B. Project Location List
- C. Preliminary Project Cost Estimate

PRELIMINARY COST ESTIMATE

Access Work		Yes/No	Quantity (unit)	*Cost
(A)	Access Gates - Personnel			
(B)	Access Gates - Equipment	10000		Bandon of Control
(C)	Light Duty Access Trails			
(0)	(a) All Weather Surface			
	(b) Graded Surface			
	(#)			
(D)	Shoulder Widening/Turnouts**			
(D)	(a) Paved Surface			
	(b) All Weather Surface	 .		
(E)	(#)	-		
(E)	Staircases Maintenance Vehicle Pullout		2 (EA)	e77 200
(F)	Maintenance venicle Pullout	Yes	2 (EA)	\$77,200
	COSTS SUBTOTAL			\$77,200
Veget	ation Control Work	Yes/No	Quantity	*Cost
			(unit)	
	egetation control under Metal	•••		
	Guard Rail			
	egetation control under Thrie Beam			
Barrie				
	egetation control around sign posts	37	<u> </u>	¢521 400
	aving narrow areas	_Yes	51,600 _(SF)_	_\$531,480_
	aving areas beyond the gore 190101, 250401,390102		(31.)	
	SUBTOTALS			_\$531,480_
COS	SUBTOTALS			
Facilit	y Relocation Work	Yes/No	Quantity	*Cost
			(unit)	
(A) Pull boxes				<u> </u>
. ,	rigation valve boxes			
	ackflow preventer assemblies		***************************************	
(D) Electrical control boxes				<u></u>
(E) Traffic control boxes				
	rigation control boxes	4		
	Iaintain Existing Irrigation Facilities	_Yes	<u>(LS)</u>	\$10,000
COST	T SUBTOTALS			<u>\$10,000</u>

EA 3G710K

September 2011

Addit	ional Work	Yes/No	(unit)	
(A)	Traffic Control	_Yes	(LS)	<u>\$210,000</u>
(B)	Earthwork***	<u>Yes</u>	51,600 (SF)	\$572,760
(C)	Pavement****	************		
	(See Paving areas beyond the gore)			
(D)	Clearing and Grubbing	<u>Yes</u>	<u>(LS)</u>	<u>\$15,400</u>
(E)	Other Landscape Related Work#			
	(List type of work)			
	Vegetation Control			-
	Erosion Control	_Yes	(LS)	\$_61,500
	Water Quality Control	_Yes	(LS)	\$_40,000
	Remove Tree	<u>Yes</u>	(LS)	\$_8,000
(F)	Guardrail (include remove and			
	replace) (a) Metal Beam			
	(b) Concrete			
	(c) Bridge Approach			ş.:
	(#)	-		
(G)	Drainage Adjustment and	Yes	(LS)	\$110,000_
` '	Rehabilitation#			
	(List type of work)			
(H)	Retaining Walls			
(I)	State Utility Box Relocation	<u>YES</u>	<u>18 EA</u>	\$10,000
	COST SUBTOTALS			\$1,030,660
	SUM OF SUBTOTALS			_\$1,649,340
	25% Contingency			_\$550,000_
	TOTAL PROJECT COST			_\$2,199,340
	Say			_\$2,200,000

Note:

^{*} If duplicated in other items, show cost in parenthesis.

^{**} Include cost of shoulder backing material, as needed.

^{***} Earthwork other than that required for grading turnouts or access trails.

^{****} Pavement work other than that required for the Access or Vegetation Control work.

Add Additional lines as necessary. Do not include support costs.

Right of Way Items

B. Utility Relocation (State Share) \$5,000 (to be used for potholing)

REVISED ALAMEDA COUNTY BY P		RIORITY		SCOPE OF WC			9/15/2011		
No.	County	Route	PM	Location			- Allia		Area/SF
1	Ala	238/880	16.5	WB 238 TC	NB 880 RA	MP GORE			1,800
2	Ala	880	20.4	NB 880 ON	FROM LEW	/ELLING TRI	ANGLE		150
6	Ala	880	25.4	NB 880 HE	GENBERGE	R/EDES ON/	OFF		3,400
7	Ala	880	27.1	NB 880/SB	880 66TH A	VE ON/OFF	•		7,000
8	Ala	880	20.4	SB 880 ON	GRANT/HE	SPERIAN			450
9	Ala	880	18.2	SB 880 ON	'A' STREET	OFF			500
10	Ala	880	14.5	SB 880 OFF	-INDUSTRIA	AL TRIANGL	E ISLAND		1,000
12	Ala	880	13	SB 880 ON,	ON ALVAR	ADO NILES			3,000
13	Ala	880	10.5	SB 880 OFF	ON NB ON	I/OFF DECO	TO		11,400
16	Ala	880	4.5	OFF/ON/O	FF AUTO M	ALL	NB		3,900
17	Ala	880	3.2	NB 880 OF	F/ON/ON F	REMONT CL	JSHING		3,400
18	Ala	680	3.2-3.8	NB 680 GR	IMMER-DU	RHAM SW S	TRIP		15,600
19	Ala	580	39.7	MVP WB					1,020
20	Ala	580	42.8	MVP WB					1,020
							Alle services		
								TOTAL	53,640

